



Restoration Management Corporation

(now renamed Fluor Daniel Fernald)

P.O. Box 538704 Cincinnati, Ohio 45253-8704 (513) 648-3000

April 14, 1997

Fernald Environmental Management Project  
Letter No. C:SWP(ARP):97-0016

Mr. Thomas A. Winston, District Chief  
Southwest District Office  
Ohio Environmental Protection Agency  
401 East Fifth Street  
Dayton, OH 45402-2911

Dear Mr. Winston:

**NONCOMPLIANCE REPORT - MARCH 1997 - FERNALD ENVIRONMENTAL MANAGEMENT  
PROJECT - NPDES PERMIT NO. 11000004\*ED**

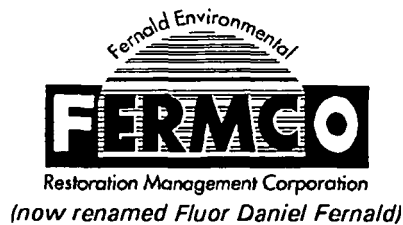
Enclosed is the Noncompliance Report for March 1997. In addition, copies of the March 1997 Discharge Monitoring Reports are enclosed to aid your review. If you have any questions or require additional information, please contact Mr. Frank Johnston at (513) 648-5294.

Sincerely,

A handwritten signature in black ink, appearing to read "David J. Brettschneider".

David J. Brettschneider, Project Manager  
AWWT & Wastewater Project

DJB:FLJ:flj  
Enclosures



Mr. Thomas A. Winston  
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AR Coordinator, MS78  
EDC File No. 52700

NONCOMPLIANCE REPORT  
NPDES PERMIT NO. 11000004\*ED  
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT  
U.S. DEPARTMENT OF ENERGY

The following table describes the March 1997 noncompliance with the discharge limitations specified in the FEMP NPDES Permit. This table lists the outfall, date of noncompliance, parameter, permit limit, and measured effluent concentration.

OUTFALL (NAME AND NUMBER): PARSHALL FLUME - 4001

<u>Date</u>	<u>Parameter</u>	<u>Permit Limit</u>	<u>Actual Measurement</u>
March 3, 1997	TSS	473 kg/day	553.84 kg/day

The TSS violation occurred at the Parshall Flume during a stormwater bypass event. The bypass was necessary to prevent an overflow of the Stormwater Retention Basin. This event began 12:00 am March 2, 1997 and lasted until 9:30 am on March 4, 1997. OEPA was informed of the bypass situation by telephone on March 4, 1997 and confirmed in writing on March 7, 1997. The noncompliance was discovered on March 11, 1997 during a routine data evaluation. The OEPA was informed of this noncompliance on March 11, 1997 as required under the terms of the permit.

The noncompliance is directly related to the stormwater bypass event. The TSS concentration for that day of 35.2 mg/l was elevated but still well below the daily maximum limitation of 45 mg/l. However, because of the heavy rains necessitating the stormwater bypass, the FEMP's combined discharge to the Great Miami River was 4,157,000 gallons resulting in a total mass discharge of 553.84 kilograms.

The FEMP maintains daily logs recording TSS measurements at numerous strategic locations. The effluents which comprised the flow measured at the parshall flume on March 3, 1997 included untreated South Plume Groundwater, South Plume Interim treatment System effluent, Sewage Treatment Plant effluent, Stormwater Retention Basin bypass, Advanced Wastewater Treatment (AWWT) System combined effluent, and Interim Advanced Wastewater Treatment Trailers (IAWWT) T108 & T109. Operator logs indicate all systems were operating normally. This is further evidenced by the routine process control TSS samples collected as presented in the following table.

### TSS MEASUREMENTS - MARCH STORMWATER BYPASS EVENT

Effluent	March 2, 1997	March 3, 1997	March 4, 1997
STP	8 mg/l	8 mg/l	6 mg/l
SRB Bypass	No data	83.0 mg/l	116.0 mg/l
AWWT	2.4 mg/l	2.0 mg/l	3.2 mg/l
IAWWT T108	17.2 mg/l	45.2 mg/l	23.6 mg/l
IAWWT T109	18.4 mg/l	46.4 mg/l	25.6 mg/l

NOTE: TSS samples on groundwater systems (South Plume Well Field Discharge & South Plume Interim Treatment System) are not collected.

The FDF/FEMP will continue to monitor this issue. However, at this time there are no specific corrective actions identified. FDF/FEMP continuously seeks ways to minimize the frequency of bypass events; and when they occur, seek to minimize the bypass duration.